

IN THE CLAIMS

The claims in the listing will replace all prior claims in the application.

1. [CURRENTLY AMENDED] Process for the determination of parameters of a breath condensate by using at least one sensor for the measurement of the parameters and an analysis unit with display of the measurement results, comprising the steps of

delivering a solution from a storage container and applying said solution onto the at least one sensor within a closed cassette including the at least one sensor by action on the storage container from outside the cassette on the storage containers, the solutions generating at least one of

a cassette flushing;

a conditioning of the at least one sensor;

a calibration ~~or~~ of the at least one sensor; and

a dilution of ~~the~~ a sample solution and/or elevation of the ion concentration or conductivity;

applying through an opening of the cassette a breath condensate sample solution onto the at least one sensor for parameter determination ~~through an opening of the cassette~~; and

coordinating the temperature of the at least one sensor with a temperature of the sample solution during determination of the parameters of the breath condensate, especially by adjusting the temperature of the sample solution to the working temperature of the at least one sensor;

transmitting ~~the~~ measurement results originating from the at least one sensor ~~to~~ out of the cassette and ~~from there~~ transferred to the analysis unit.

whereby data apart from the pure measurement data, selected from the group consisting of flow rate, temperature, freedom from air bubbles and, time are captured and transmitted to the analysis unit; and

disposing the cassette after the determination of parameters of the breath condensate and of a sample solution without release of any solution in the cassette.

2. [ORIGINAL] Process according to claim 1, wherein the sample solution is sucked or injected into the cassette, preferably from a sample container or a sample collector system.

3. [CURRENTLY AMENDED] Process according to claim 1, wherein prior to the delivery of the sample into the cassette ~~and/or~~ or the application thereof onto the at least one sensor, a mixing of the substances in the storage containers is carried out by action from outside the cassette.

4. [CURRENTLY AMENDED] Process according to claim 1, wherein a calibration solution is produced by mixing the contents of two or more interconnected storage containers in the cassette by action applied from outside the cassette and the calibration solution is then delivered into the cassette ~~and/or~~ or applied onto the at least one sensor.

5. [ORIGINAL] Process according to claim 4, wherein a blister is used which contains a lyophilized enzyme as dry matter, or another compound which generates a quantitatively defined reaction in the calibration solution by which an analyte is created.

6. [CANCELLED]

7. [CURRENTLY AMENDED] Process according to claim 1, wherein the delivery of the solutions from the storage containers by action applied from outside the cassette is carried out ~~with~~ by using syringe shaped storage containers ~~by~~ and operation of ~~the~~ syringe piston pistons of the storage containers or ~~with~~ by using storage containers of flexible construction ~~by~~ and squeezing out of the respective container or by destruction of the flexible walls.

8. [CANCELLED]

9. [ORIGINAL] Process according to claim 1, comprising the further step of diluting the sample solution prior to introduction into the cassette with a buffer solution or a dilution solution or adjusting an ion concentration or conductivity necessary for the measurement.

10. [CANCELLED]

11. [CANCELLED]

12. [CANCELLED]

13. [CANCELLED]

14. [CANCELLED]

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AMENDMENT B

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15. [CANCELLED]

16. [CANCELLED]

17. [CANCELLED]

18. [CANCELLED]

19. [CANCELLED]

20. [CANCELLED]

21. [CANCELLED]

22. [CANCELLED]

23. [CANCELLED]

24. [CANCELLED]